

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of correcting the light amount of a printhead ~~where~~ in which plural light-emitting chips, in which plural light-emitting elements are formed in a row, are disposed in a row, the method comprising:

determining ~~the~~ beam profiles of the plural light-emitting elements including ~~joints~~ a joint of the light-emitting chips;

determining ~~the~~ distance between the light-emitting elements at the ~~joints~~ joint of the light-emitting chips from ~~the~~ distance between peaks of the beam profiles;

comparing the determined distance between the light-emitting elements with ~~the~~ resolution pitch of the light-emitting printhead;

raising ~~the~~ light amount of the light-emitting elements of at least one side of the ~~joints~~ joint of the light-emitting chips when the determined distance between the light-emitting elements is longer than the resolution pitch; and

lowering ~~the~~ light amount of the light-emitting elements of at least one side of the ~~joints~~ joint of the light-emitting chips when the distance between the light-emitting chips is shorter than the resolution pitch.

2. (Currently Amended) A method of correcting the light amount of a printhead ~~where~~ in which plural light-emitting chips, in which plural light-emitting elements are formed in a row, are disposed in a row, the method comprising:

determining ~~the~~ beam profiles of the plural light-emitting elements including ~~joints~~ a joint of the light-emitting chips;

slicing the beam profiles at a predetermined level and determining ~~the distance~~ between the light-emitting elements at the ~~joints~~ joint of the light-emitting chips from ~~the~~ distance between median points of the sliced plane;

comparing the determined distance between the light-emitting elements with ~~the~~ resolution pitch of the light-emitting printhead;

raising ~~the~~ light amount of the light-emitting elements of at least one side of the ~~joints~~ joint of the light-emitting chips when the determined distance between the light-emitting elements is longer than the resolution pitch; and

lowering ~~the~~ light amount of the light-emitting elements of at least one side of the ~~joints~~ joint of the light-emitting chips when the distance between the light-emitting chips is shorter than the resolution pitch.

3. (Original) The method of correcting the light amount of a printhead of claim 1, wherein when the determined distance between the light-emitting elements is represented as  $d2$  ( $\mu\text{m}$ ), the resolution pitch is represented as  $d1$  ( $\mu\text{m}$ ) and the change in the light amount of the light-emitting elements whose light amount is raised and lowered is represented as  $P$  (%),  $d2 - d1 = P$ .

4. (Currently Amended) A printing apparatus comprising:

a printhead ~~that in which~~ plural light-emitting chips, in which plural light-emitting elements are formed in a row, are disposed in a row; ~~and~~

a controller that determines beam profiles of the plural light-emitting elements including a joint of the light-emitting chips, and determines distance between the light-emitting elements at the joint of the light-emitting chips according to distance between peaks of the beam profiles; and

a driver ~~for driving~~ that drives the plural light-emitting elements based upon image data on the distance determined by the controller and resolution pitch of the light-emitting

printhead, ~~as the~~ light amount of at least one of two light-emitting elements which ~~are~~ neighbor at the joint of the light-emitting chips ~~to be being~~ different from ~~the~~ light amount of light-emitting elements which neighbor the two light-emitting elements.

5. (Currently Amended) A printhead comprising:

a light-emitting portion ~~that in which~~ plural light-emitting chips, in which plural light-emitting elements are formed in a row, are disposed in a row; and

a controller that determines beam profiles of the plural light-emitting elements including a joint of the light-emitting chips, and determines distance between the light-emitting elements at the joint of the light-emitting chips according to distance between peaks of the beam profiles; and

\_\_\_\_\_ a driver for driving that drives the plural light-emitting elements based ~~upon image data~~ on the distance determined by the controller and resolution pitch of the light-emitting portion, ~~as the~~ light amount of at least one of two light-emitting elements which ~~are~~ neighbor at the joint of the light-emitting chips ~~to be being~~ different from ~~the~~ light amount of light-emitting elements which neighbor the two light-emitting elements.

6. (New) A printing apparatus comprising:

a printhead in which plural light-emitting chips, in which plural light-emitting elements are formed in a row, are disposed in a row;

a controller that determines beam profiles of the plural light-emitting elements including light-emitting elements at a joint of the light-emitting chips, and determines distance between the light-emitting elements at the joint of the light-emitting chips according to distance between median points of sliced plane made by slicing the beam profiles at a predetermined level; and

a driver that drives the plural light-emitting elements based on the distance determined by the controller and resolution pitch of the light-emitting printhead, light amount of at least

one of two light-emitting elements which neighbor at the joint of the light-emitting chips being different from light amount of light-emitting elements which neighbor the two light-emitting elements.

7. (New) A printhead comprising:

a light-emitting portion in which plural light-emitting chips, in which plural light-emitting elements are formed in a row, are disposed in a row;

a controller that determines beam profiles of the plural light-emitting elements including light-emitting elements at a joint of the light-emitting chips, and determines distance between the light-emitting elements at the joint of the light-emitting chips according to distance between median points of sliced plane made by slicing the beam profiles at a predetermined level; and

a driver that drives the plural light-emitting elements based on the distance determined by the controller and resolution pitch of the light-emitting portion, light amount of at least one of two light-emitting elements which neighbor at the joint of the light-emitting chips being different from light amount of light-emitting elements which neighbor the two light-emitting elements.